

INVENTORY OF NSLS EMISSION SOURCES - April 9, 2007						
SOURCE						
ID	EMISSION SOURCE DESCRIPTION	LOCATION / ROOM	PAF#	PERMIT STATUS	EXEMPT / TRIVIAL CATEGORY	NOTES
72501	SMALL ULTRASONIC METAL PARTS CLEANER DEGREASING PAIL	BLDG 725/ROOM 2-190A	591	EXEMPT	EXEMPT FROM EMISSION UNIT UMETAL OF BNL'S TITLE V OPERATING PERMIT APPLICATION BECAUSE IT IS A SMALL SCALE CLEANING OPERATION ASSOCIATED WITH R&D WORK, AND IS PERFORMED IN A HOOD THAT IS EXEMPT FROM TITLE V.	
725AA	LAB HOOD	BLDG 725/ROOM# 1-160		EXEMPT	EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	
725AB	LAB HOOD	BLDG 725/ROOM# 1-153		EXEMPT	EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	
725AC	LAB HOOD	BLDG 725/ROOM# 1-152		EXEMPT	EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	
725AD	LAB HOOD	BLDG 725/ROOM# 1-149		EXEMPT	EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	
725AE	LAB HOOD	BLDG 725/ROOM# 1-146		EXEMPT	EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	
725AF	LAB HOOD	BLDG 725/ROOM# 1-128		EXEMPT	EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	
725AG	LAB HOOD	BLDG 725/ROOM# 1-159		EXEMPT	EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	NOT IN USE-TOO MUCH DEBRIS
725AH	LAB HOOD	BLDG 725/ROOM# 1-162		EXEMPT	EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	
725AI	LAB HOOD	BLDG 725/ROOM# 1-163		EXEMPT	EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	
725AJ	LAB HOOD	BLDG 725/ROOM# 1-161		EXEMPT	EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	
725AK	LAB HOOD	BLDG 725/ROOM# 1-164		EXEMPT	EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	
725AL	LAB HOOD	BLDG 725/ROOM# 1-166		EXEMPT	EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	
725AM	LAB HOOD	BLDG 725/ROOM# 1-167		EXEMPT	EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	
725AN	LAB HOOD	BLDG 725/ROOM# 1-170		EXEMPT	EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	
725AO	LAB HOOD	BLDG 725/ROOM# 1-154		EXEMPT	EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	
725AP	LAB HOOD	BLDG 725/ROOM# 1-180		EXEMPT	EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	
No#	LAB HOOD	BLDG 725/ROOM 1-172		EXEMPT	EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	
No#	LAB HOOD	BLDG 725/ROOM 1-110		EXEMPT	EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	
No#	LAB HOOD (2)	BLDG 725/ROOM 1-117		EXEMPT	EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	
725AQ	LAMINAR FLOW HOOD	BLDG 725/ROOM# U1		EXEMPT	EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	ENV CONTROL, EXHAUSTS TO ROOM
725AR	ELEPHANT TRUNK IN HUTCH <sup>1</sup>	BLDG 725/ROOM# X25		EXEMPT	EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	
725AS	LAMINAR HOOD	BLDG 725/ROOM# 1-128		EXEMPT	EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	ENV CONTROL, EXHAUSTS TO ROOM
725AT	LAMINAR HOOD	BLDG 725/ROOM# X15B		EXEMPT	EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	ENV CONTROL, EXHAUSTS TO ROOM
No#	LAMINAR HOOD	BLDG 725 BEAM U-13		EXEMPT	EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	ENV CONTROL, EXHAUSTS TO ROOM
725AV	VACUUM ULTRA VIOLET PVC HOUSE VAC SYSTEM	BLDG 725		TRIVIAL	VACUUM PRODUCING DEVICES EXHAUSTING AMBIENT AIR OR OIL FROM THE VACUUM PRODUCING MECHANISM	ROUGHING PUMPS EXHAUST INTO THIS SYSTEM, WHICH ENCOMPASSES THE ENTIRE RING FLOOR, THEN EXHAUSTS OUTSIDE
725AW	EXPERIMENTAL ROOMS COMMON EXHAUST	X11A&B, X15A, X18B, X19A, X23A2&A3, X24A	462	EXEMPT	EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	SAME AS ABOVE FOR X-RAY RING. COLLECTS EXHAUST FROM THE HUTCHES, SHOP, ETC...
New	GAS EXHAUST SYSTEM	X-10C				*Not new, but not captured in previous inventories
725AX	H2 & CO2 VENTED CABINETS	BLDG 725/Opposite ROOM# 1-159		TRIVIAL	EMISSIONS OF WATER VAPOR, O2, N2, INERT GASES, H2 AND CO2	
725AY	X-7B HUTCH VENTILATION SYSTEM	BLDG 725/AREA X-7B		TRIVIAL	EMISSIONS OF WATER VAPOR, O2, N2, INERT GASES, H2 AND CO2	
725AZ	HYDROGEN X5 TARGET VENTILATION SYSTEM VENTILATION SYSTEM FOR HYDROGEN	BLDG 725/ROOM# 1-168; hose @ beampipe		EXEMPT	EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	NOT IN USE

725BA	MACHINE SHOP EQUIPMENT	BLDG 725/ROOM 2-190A	462	TRIVIAL	HAND-HELD OR MANUALLY OPERATED MACHINING EQUIPMENT	
725BB	SMALL ULTRASONIC METAL PARTS CLEANER	BLDG 725/ROOM 2-190D	591	TRIVIAL	EXEMPT FROM EMISSION UNIT UMETAL OF BNL'S TITLE V OPERATING PERMIT APPLICATION BECAUSE IT IS A SMALL SCALE CLEANING OPERATION ASSOCIATED WITH R&D WORK, AND IS PERFORMED IN A HOOD THAT IS EXEMPT FROM TITLE V.	THERE IS NO MACHINE SHOP EQUIPMENT IN ROOM 2-190D
725BC	X-RAY FILM PROCESSING	BLDG 725/ROOM 1-140A	463	TRIVIAL	PHOTOCOPYING, PHOTOGRAPHIC PROCESSING OR RELATED EQUIPMENT	Darkrooms 1-142 and 1-143 have been decommissioned.
725BD	LAB HOOD USED FOR ETCHING GLASS CRYSTALS	BLDG 725/ROOM 2-190	591	EXEMPT	EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	
725BE	MACHINING EQUIPMENT <sup>2</sup>	BLDG 725/ROOM 1-124	462	TRIVIAL	HAND-HELD OR MANUALLY OPERATED MACHINING EQUIPMENT	
No#	SOLDERING	BLDG 725/ROOM 1-124	462	TRIVIAL	HAND-HELD OR MANUALLY OPERATED SOLDERING EQUIPMENT	
725BF	MACHINING EQUIPMENT <sup>3</sup>	BLDG 725/ADJACENT TO X-RAY RING	462	TRIVIAL	HAND-HELD OR MANUALLY OPERATED MACHINING EQUIPMENT	
New	X9 EESE Exhaust System	BLDG 725/X9	N/A			Will exhaust an EESE and gas cabinet.
726AA	SANDBLASTING MACHINE	BLDG 726	462*	EXEMPT	ABRASIVE CLEANING OPERATIONS WHICH EXHAUST TO AN APPROPRIATE EMISSION CONTROL DEVICE	NOT MENTIONED IN THE PAF BECAUSE THE UNIT IS OUT OF SERVICE
726AB	MACHINE SHOP EQUIPMENT <sup>4</sup>	BLDG 726/MACHINE SHOP	462	TRIVIAL	HAND-HELD OR MANUALLY OPERATED MACHINING EQUIPMENT	INCLUDES 3 LATHES, 4 MILLING MACHINES, 3 BANDSAWS, 2 BELT SANDERS, 3 GRINDERS, 1 CHOP SAW, 1 FILLING MACHINE, AND SOME SHEET METAL MACHINERY. SOURCE IN USE AND WILL BE USED IN THE FUTURE INSIDE OF BLDG. SOURCE IS VENTED TO ROOM.
726AC	WIPE CLEANING OF METAL PARTS	BLDG 726/STAFF SHOPS	462	TRIVIAL	SOLVENT CLEANING OF PARTS AND EQUIPMENT PERFORMED EXCLUSIVELY BY HAND	
727AA	MACHINE SHOP EQUIPMENT	BLDG 727/MACHINE SHOP	462	TRIVIAL	HAND-HELD OR MANUALLY OPERATED MACHINING EQUIPMENT	
727AB	SOLDERING	BLDG 727/STAFF SHOPS	462	TRIVIAL	HAND-HELD OR MANUALLY OPERATED WELDING, BRAZING AND SOLDERING EQUIPMENT	
No#	LAMINAR FLOW HOOD	BLDG 727		EXEMPT	EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	ENV CONTROL, EXHAUSTS TO ROOM
No#	LAMINAR FLOW HOOD	BLDG 729		EXEMPT	EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	ENV CONTROL, EXHAUSTS TO ROOM
90101	WELDING SHOP			DECOMMISSIONED	SOURCE WAS PERMITTED AS PERMIT#472200349190101.	

BASEMENT/NSLS						
SOURCE ID	EMISSION SOURCE DESCRIPTION	LOCATION/ROOM	PAF#	PERMIT STATUS	EXEMPT /TRIVIAL CATEGORY	NOTES
No#	X-RAY LITHOGRAPHY HOOD	BLDG 535C/C12		EXEMPT	EXHAUST SYSTEM FOR LABORATORY OPERATIONS	
No#	X-RAY LITHORGRAPHY (3)	BLDG 535C/C12		EXEMPT	THREE TANKS, ACID/CAUSTIC, VENTED TO OUTDOORS	MAINTAIN NEG. PRESS. IN ROOM.
535BB	LAB HOODS (4) <sup>5</sup>	BLDG 535C/C-20		EXEMPT	VENTILATION & EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	ONLY 1 IN USE
535BK	EXHAUST HOOD	BLDG 535C/C-20		TRIVIAL	SOLVENT CLEANING OF PARTS AND EQUIPMENT PERFORMED EXCLUSIVELY BY HAND	
535BM	WIPE CLEANING OF VACUUM PUMP PARTS	BLDG 535C/C-20	470	TRIVIAL	SOLVENT CLEANING OF PARTS AND EQUIPMENT PERFORMED EXCLUSIVELY BY HAND	

53505	VACUUM PUMP PARTS CLEANING	BLDG 535C/C-20	470	EXEMPT	EXEMPT FROM EMISSION UNIT UMETAL OF BNL'S TITLE V OPERATING PERMIT APPLICATION BECAUSE IT IS A SMALL SCALE CLEANING OPERATION ASSOCIATED WITH R&D WORK, AND IS PERFORMED IN A HOOD THAT IS EXEMPT FROM TITLE V.	
535BE	LAB HOOD	BLDG 535C/C-22		EXEMPT	VENTILATION & EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	NOT IN USE
535BC	LAB HOOD	BLDG 535C/C-23		EXEMPT	VENTILATION & EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	NOT IN USE
535BN	SOLDERING OF VACUUM PUMP COMPONENTS	BLDG 535C/C-23	470	TRIVIAL	HAND-HELD OR MANUALLY OPERATED WELDING, BRAZING AND SOLDERING EQUIPMENT	
No#	SILICON CRYSTAL CUTTING WHEEL	BLDG 535C/C-6A	591	TRIVIAL	MANUALLY OPERATED MACHINING EQUIPMENT	
No#	ELEPHANT TRUNK	BLDG 535C/C-6A		EXEMPT	EXHAUST SYSTEMS FOR LABORATORY OPERATIONS	

<sup>1</sup> Connected to a activated charcoal filter.

<sup>2</sup> The grinding equipment in this room is connected to a integral fabric filter. Sanding equipment in connected to a particulate filter. Soldering operations connected to a fume extractor.  
The fume extractor consists of a carcoal and particulate filter.

<sup>3</sup> The machining equipment is connected to a shop vacuum with an integral fabric filter.

<sup>4</sup> The two part grinders in this room have integral fabric filters.

<sup>5</sup> Hoods are connected to a common exhaust